

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 D01D5/06 D01F2/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 D01D D01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 100 37 923 A (ZIMMER AG) 29 March 2001 (2001-03-29) the whole document ---	1-23
A	DE 858 005 C (HENRY VON KOHORN SCARSDALE N Y) 4 December 1952 (1952-12-04) the whole document ---	1
A	US 4 043 718 A (HORI KIKUO ET AL) 23 August 1977 (1977-08-23) figure 1 -----	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

3 April 2003

Date of mailing of the international search report

15/04/2003

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INTERNATIONAL SEARCH REPORT

PCT/EP 02/12593

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 10037923	A	29-03-2001	DE	10037923 A1		29-03-2001
			AU	5837001 A		18-02-2002
			WO	0212599 A1		14-02-2002
DE 858005	C	04-12-1952	NONE			
US 4043718	A	23-08-1977	JP	51040415 A		05-04-1976
			JP	1138939 C		11-03-1983
			JP	51040414 A		05-04-1976
			JP	57030166 B		26-06-1982
			BR	7506409 A		10-08-1976
			ES	441448 A1		16-03-1977
			FI	752732 A		04-04-1976
			FR	2286895 A1		30-04-1976
			IT	1043081 B		20-02-1980
			PH	15143 A		24-08-1982
			SU	676181 A3		25-07-1979